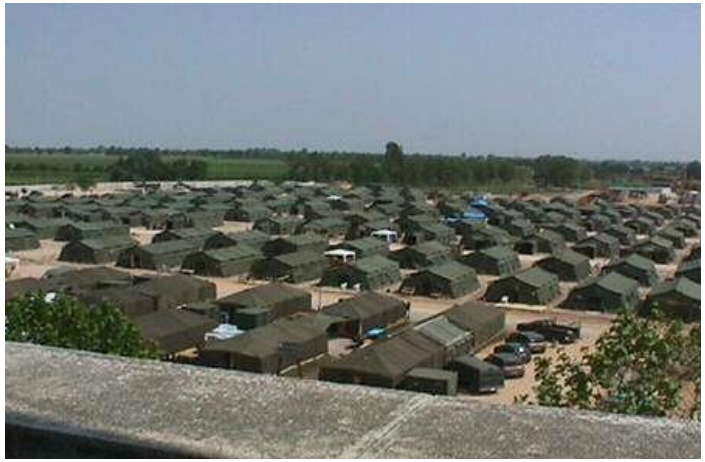
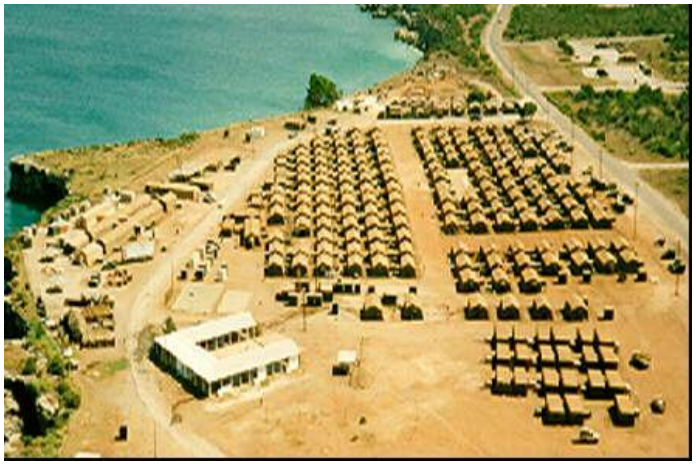
U.S. AIR FORCE

Basic Expeditionary Airfield Resources (BEAR)





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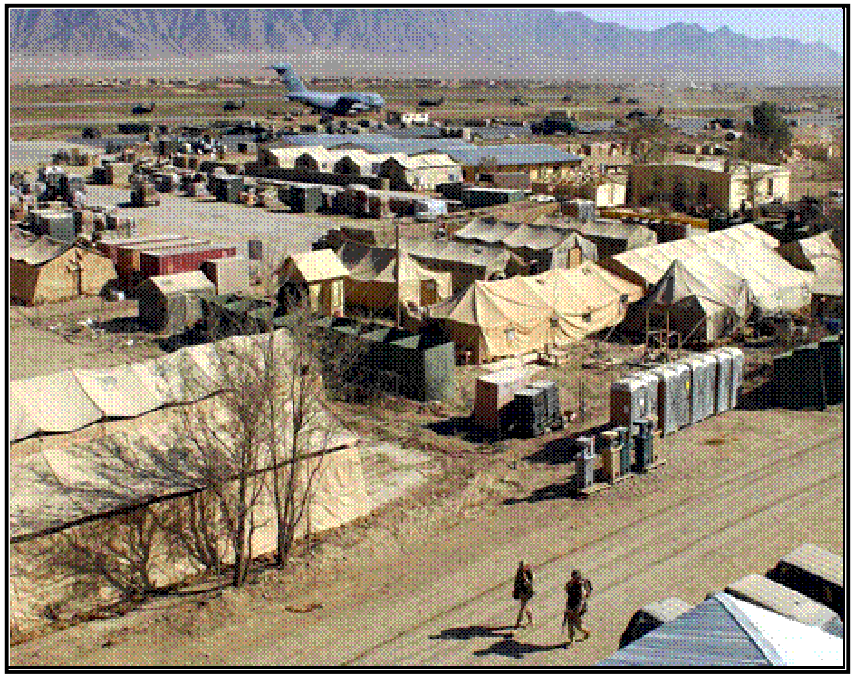
Overview

- Program Description
- Force Module Sets
- BEAR WSO Changes
- Procurement
- Recapitalization
- Requirements/Authorizations
- Summary



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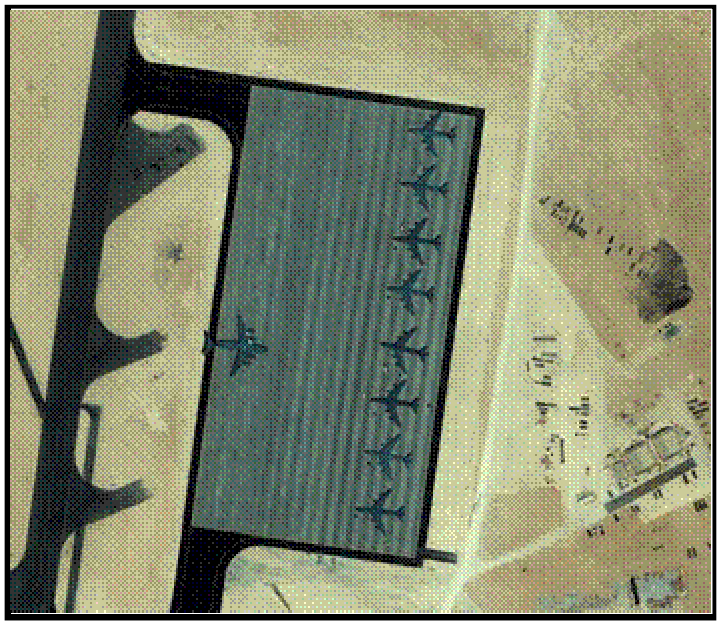
BEAR Program Description

- **Basic Expeditionary Airfield Resources (BEAR)**
  - **Previously known as Harvest Falcon and Harvest Eagle**
  - **Enables beddown of personnel and aircraft at austere locations where no infrastructure exists**
  - **Can also augment existing locations**
  - **Key Air Force Enabler**



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Force Module BEAR Sets

- **Swift BEAR Housekeeping Set (B-150)**
  - Supports 150 personnel
  - "Open the Base" phase
  - Limited billeting, chemical toilets, low voltage power
- **BEAR 550 Initial/Follow-On Housekeeping Sets (B-550i/B-500f)**
  - Supports 550 personnel
  - "Establish the Base" phase
  - Robust billeting, feeding, laundry, hygiene facilities, HVAC, water and power utilities
- **BEAR Industrial Operations Set (B-IO)**
  - Supports base infrastructure
  - "Establish the Base" phase
  - CE and logistics maintenance shops, supply warehousing
- **BEAR Initial Flight Line/Follow-on Flight Line Sets (B-IF/B-FF)**
  - Support deployed aircraft squadrons
  - "Generate the Mission" sets phase
  - Airfield lighting, aircraft arresting systems, hangars, maintenance shops, and fire stations

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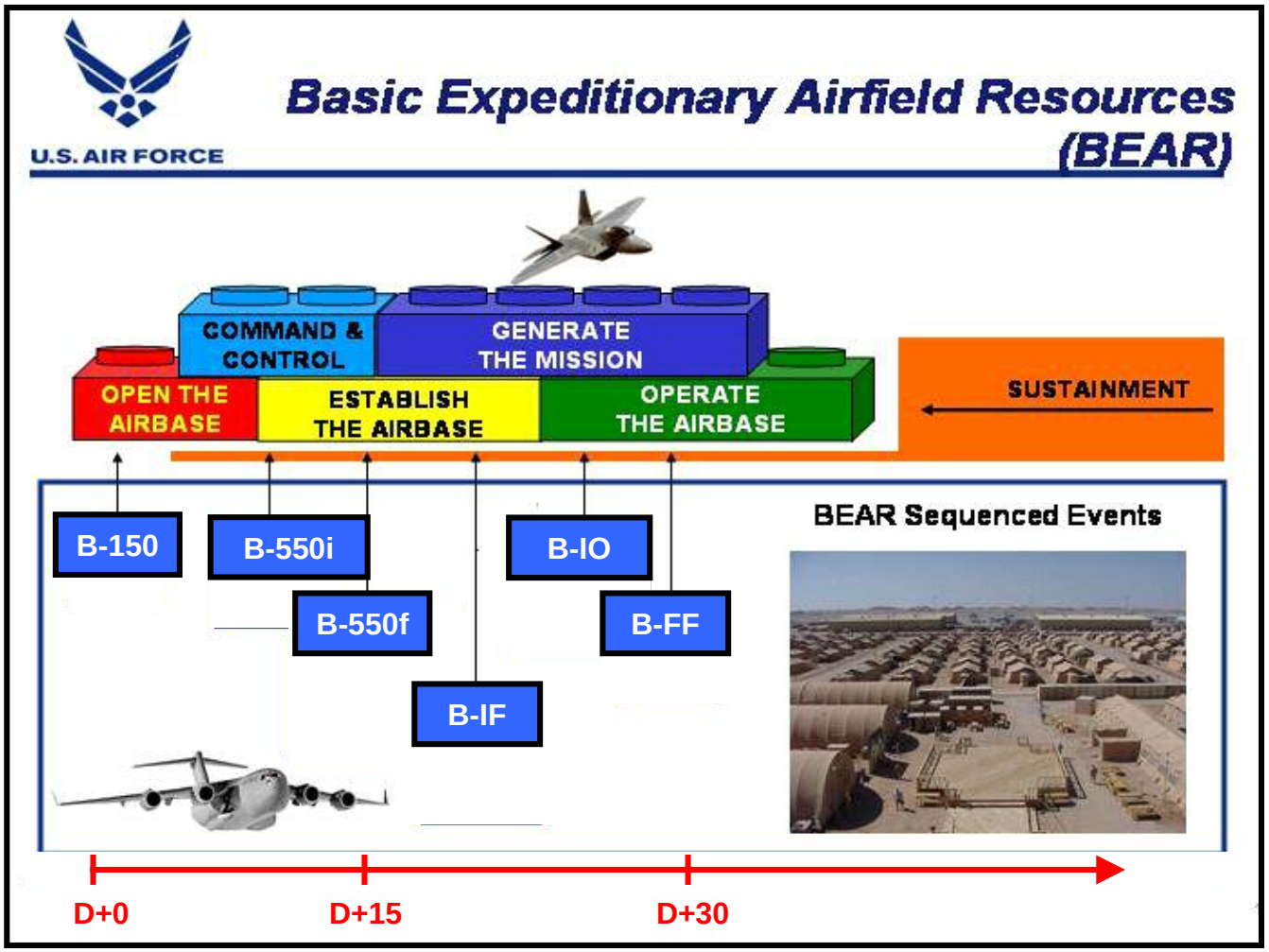
Force Module Construct
Putting It All Together



B-150 = Swift Bear
B550i = Initial
B550f = Follow-on
B-IO = Industrial Ops
B-IF = Flt Line Initial
B-FF = Flt Line Follow-on

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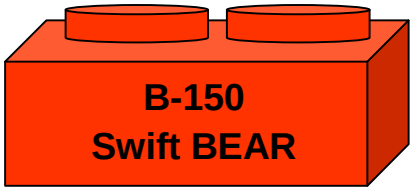
B-150 Housekeeping/Swift BEAR XFB1A



ENVIRONMENTAL CONTROL UNIT

LATRINE W/TENT

- "Open the Base" capability
  - Billeting
  - Chemical toilets
  - Low voltage power
  - ECU's

GENERATOR

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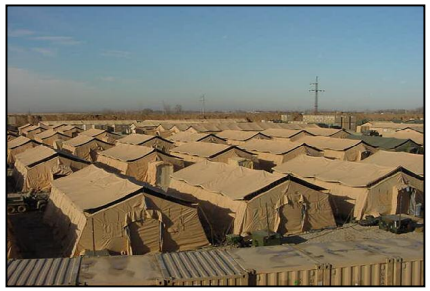
B-550i Initial Housekeeping
XFB1H



HIGH VOLTAGE PRIME POWER UNITS

- 550-person tent city
  - Billeting/ECU's
  - Kitchens
  - Hygiene facilities
  - Laundry
  - Power generation and distribution
  - Water purification, storage and distribution

KITCHEN

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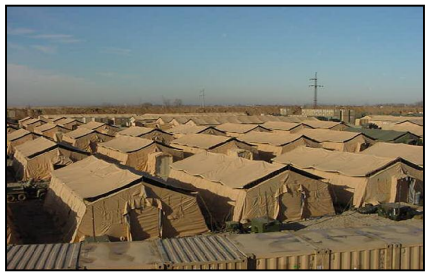
B-550f Follow On Housekeeping XFBBF



B-550f - Follow on Housekeeping

SELF HELP LAUNDRY

- 550-person tent city
  - Billeting/ECU's
  - Kitchens
  - Hygiene facilities
  - Laundry
  - Power generation and distribution
  - Water storage and distribution

SHOWER/SHAVE

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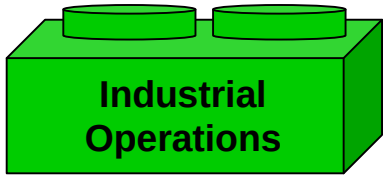
BEAR Industrial Operations
XFBRC



MEDIUM SHELTER

- Provides base engineer and logistics facilities
  - Supply warehousing
  - CE maintenance shops
  - Vehicle ops & maintenance facilities
  - CCD assets

SMALL SHELTER

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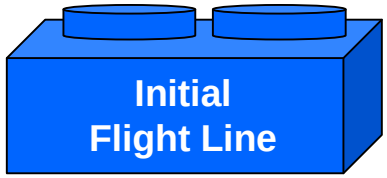
BEAR Initial Flight Line
XFBIF



1 SQ = 18 PAA

MOBILE AIRCRAFT ARRESTING SYSTEM

EXPEDITIONARY AIRFIELD LIGHTING SYSTEM

SMALL SHELTER

TELESCOPING LIGHT SET

- **Supports 1st Aircraft Sq**
  - **Aircraft Hangars**
  - **Expeditionary Airfield Lighting System**
  - **Aircraft Arresting Systems**
  - **Ops and Maintenance Shops**
  - **Area Lighting**

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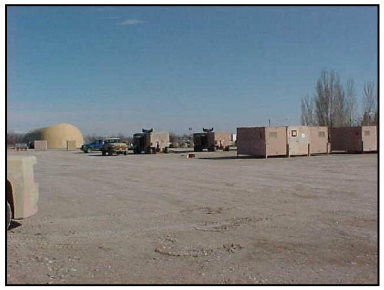
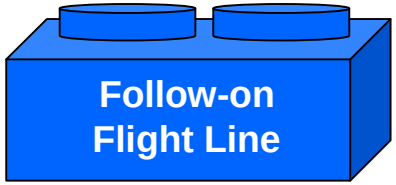
BEAR Follow On Flight Line XFBFF





1 SQ = 18 PAA

GP MEDIUM SHELTER

ESC MAINT SHOP

- **Supports Additional Squadrons**
  - **Maintenance Shops**
  - **Aircraft Hangar**
  - **Area Lighting**

AIRCRAFT HANGAR

Ganci AB Maintenance City: Mission Complete

Integrity - Service - Excellence

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BEAR WSO Changes (PMD 2054)

- **Weapon System approach from old commodities**
- **SPD's Execution Paths**
  - **Single interface within AFMC on BEAR**
  - **Unique "Tail" numbers for each weapon system**
  - **Execution of major baseline reconfiguration**
  - **Employment of a system based reconstitution effort**

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BEAR CoP
(Community of Practice)

https://afkm.wpafb.af.mil/ASPs/CoP/EntryCoP.asp?Filter=OO-DR-WR-02

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Funding

	PA	INITIATED	OBLIGATED
TOTAL FY 03	$423,596,000	$422,194,985	$422,194,570
		99.67%	99.67%
TOTAL FY 04	$92,261,000	$89,782,758	$85,397,571
		97.30%	92.51%
TOTAL FY05	$257,433,000	$154,446,327	$88,803,16
		52.10%	34.50%

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Set Strategy

- Procure 139 new FM sets
  - 39 set shipped or ready for shipment
  - Target date to complete FY09/2
  - 130 new FM sets funded
- Convert 97 legacy sets
  - Target date to complete FY07

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BEAR Recapitalization and Reconstitution

- **BEAR recapitalization is on-going**
  - **PMC/NMC sets will gradually ramp-up as they are replaced or converted to Force Module Sets**
  - **69 legacy sets being reconstituted and converted to 97 BEAR configuration sets**
  - **139 new BEAR configuration sets being purchased**
  - **Total BEAR sets = 236**
- **Last sets scheduled for delivery in FY11**
  - **Takes about 18 months to aggregate, ship, inspect and accept into inventory**

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BEAR Rqmts Determination

- OPLAN is baseline; BUT rqmts NOW tied to AEF
  - Supports Expeditionary AF Force Planning
  - Easier to articulate rqmts
  - Traces rqmts back to AEF
  - Capability Focused
  - Supports Adaptive Planning Construct
  - Complements JSCP

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BEAR Authorizations Supporting AEFs/Training/Recon

Capability	ACC 11%	AFE 4%	AMC 5%	CEN 60%	PAC 15%	Eagle Flag	Recon Support 5%	Total Sets
Swift BEAR	1	2	11		2	3	1	20
550 Initial	8	4		46	16	3	3	80
550 Follow-on	8	4		46	16		3	77
Industrial Ops	2			13			1	16
Initial Flightline	2			13			1	16
Follow-on FL	4			21			2	27
Totals	*25*	*10*	*11*	*139*	*34*	*6*	*11*	*236*

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Summary

Significant progress made in key areas

- **Increased funding FY03-05 to recapitalize BEAR**
- **Force Module reconfiguration completed; upgrade/conversions in-work**
- **Requirements validated**
- **BEAR WSO stand-up, PMD 2054 re-written, BEAR GSOG established, guidance updated, etc.**

- **Key issues/concerns**
  - **FY06/07 Funding**
  - **Prime Power Unit**
  - **Aircraft Hangar**